Notice of Allowability	Application No.	Applicant(s)	
	10/601,538 WADA, MASAHARU		J
	Examiner	Art Unit	
	Jeffrey L. Sterrett	2838	
The MAILING DATE of this communication app. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT FOR the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is	n this application. If not includ- unication will be mailed in due	ed course. THIS
1. This communication is responsive to			
2. 🗵 The allowed claim(s) is/are <u>1-21</u> .	·		
3. The drawings filed on are accepted by the Examin	er.		
 4. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have The certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON' THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	ve been received. ve been received in Application ocuments have been received " of this communication to file MENT of this application.	on No Id in this national stage applicated in this national stage applicated in the research the research the research that is a reply complying with the research	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☒ including changes required by the attached Examiner Paper No./Mail Date 	rson's Patent Drawing Revie _·		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			e back) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT			Note the
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB, Paper No./Mail Date 2-24-63 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview S Paper No. 7. ☑ Examiner's	nformal Patent Application (PTG Summary (PTO-413), /Mail Date : Amendment/Comment Statement of Reasons for Allo Jeffrey Ste	owance rrett
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U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)	Notice of Allowability	Part of Paper No./	Mail Date 20041214

Art Unit: 2838

REASONS FOR ALLOWANCE

The claimed invention of a DC-DC converter as recited by claims 1-4 is found to be allowable over the prior art since a DC-DC converter comprising an oscillator synchronized comparator responsive to an output voltage detecting circuit wherein the comparator makes a comparison between a reference voltage and the output voltage of the output voltage detecting circuit each cycle of the oscillator was not found to be singularly or collectively taught by the prior art.

The claimed invention of a DC-DC converter as recited by claims 5-8 is found to be allowable over the prior art since a DC-DC converter comprising a pump circuit and an oscillator synchronized comparator responsive to an output voltage detecting circuit wherein the comparator makes a comparison between a reference voltage and the output voltage of the output voltage detecting circuit each cycle of the oscillator so as to control the pump circuit was not found to be singularly or collectively taught by the prior art.

The claimed invention of a DC-DC converter as recited by claims 9-12 is found to be allowable over the prior art since a DC-DC converter comprising a pump circuit and an pulse generator synchronized comparator responsive to an output voltage detecting circuit wherein the comparator makes a comparison between a reference voltage and the output voltage of the output voltage detecting circuit each cycle of the pulse generator so as to control the pump circuit via a second pulse generator was not found to be singularly or collectively taught by the prior art.

The claimed invention of a DC-DC converter as recited by claims 13-15 is found to be allowable over the prior art since a DC-DC converter comprising a pump circuit and an oscillator synchronized comparator responsive to an output voltage detecting circuit wherein the comparator makes a comparison between a reference voltage and

Application/Control Number: 10/601,538

Art Unit: 2838

the output voltage of the output voltage detecting circuit each cycle of a first or a second oscillator so as to control the pump circuit was not found to be singularly or collectively taught by the prior art.

The claimed invention of a DC-DC converter as recited by claims 16-18 is found to be allowable over the prior art since a DC-DC converter comprising a pump circuit and a pulse generator synchronized comparator responsive to an output voltage detecting circuit wherein the comparator makes a comparison between a reference voltage and the output voltage of the output voltage detecting circuit each cycle of a first or a third generator so as to control the pump circuit was not found to be singularly or collectively taught by the prior art.

The claimed invention of a DC-DC converter as recited by claims 19-21 is found to be allowable over the prior art since a DC-DC converter comprising a power switching transistor and an oscillator synchronized comparator responsive to an output voltage detecting circuit wherein the comparator makes a comparison between a reference voltage and the output voltage of the output voltage detecting circuit each cycle of the oscillator so as to control the power switching transistor via a drive circuit was not found to be singularly or collectively taught by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571)

Application/Control Number: 10/601,538 Page 4

Art Unit: 2838

272-2085. The examiner can normally be reached on Monday-Thursday & 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey L. Sterrett Primary Examiner Art Unit 2838

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